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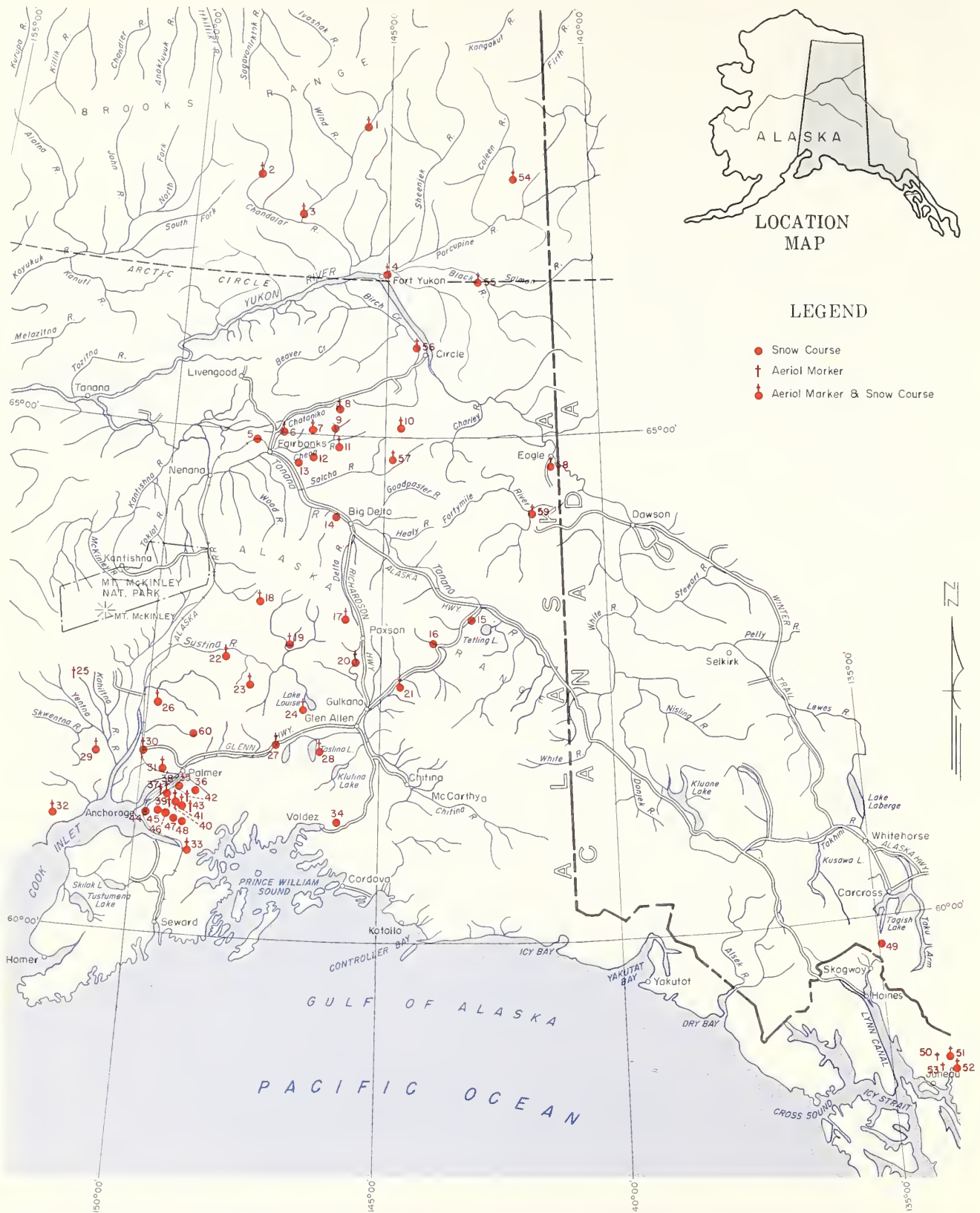


FEDERAL - STATE - PRIVATE  
**COOPERATIVE SNOW SURVEYS**  
for  
**ALASKA**

U. S. DEPARTMENT of AGRICULTURE , SOIL CONSERVATION SERVICE  
and  
ALASKA SOIL CONSERVATION DISTRICT

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, Alaska Highway Dept., Alaska Department of Fish and Game and University of Alaska.

AS OF  
**MAY 1, 1965**



# SNOW SURVEYS

*for*

## ALASKA

*Report Issued by*

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

W. B. OLIVER, STATE CONSERVATIONIST  
P. O. Box F, PALMER, ALASKA

### INDEX OF ALASKA SNOW COURSES

| MAP<br>NO. | COURSE NAME       | COURSE<br>NO. | ELEV. | MAP<br>NO. | COURSE NAME                  | COURSE<br>NO. | ELEV. |
|------------|-------------------|---------------|-------|------------|------------------------------|---------------|-------|
| 1          | Arctic Village    | 45TT1A        | 2300  | 32         | McArthur                     | 51MM1A        | 120   |
| 2          | Chandalar Lake    | 48SS1A        | 2040  | 33         | Twenty Mile                  | 48LL1A        | 100   |
| 3          | Venetie           | 46SS1A        | 610   | 34         | Worthington Glacier          | 45MM1         | 2400  |
| 4          | Fort Yukon        | 45RR1A        | 425   | 35         | Moraine                      | 48MM1A        | 2100  |
| 5          | Yak Pasture       | 47PP1         | 540   | 36         | Ptarmigan                    | 48MM2         | 3000  |
| 6          | Cleary Summit     | 47QQ1A        | 2230  | 37         | Glacier                      | 48MM3a        |       |
| 7          | Little Chena      | 46QQ2A        | 2200  | 38         | Grizzly                      | 48MM4A        | 5000  |
| 8          | Mt. Ryan          | 46QQ1A        | 2950  | 39         | Sheep                        | 48MM5a        | 2500  |
| 9          | Chena Hot Springs | 46QQ3         | 1180  | 40         | Bowl                         | 48MM6a        | 4500  |
| 10         | Big Windy         | 44QQ2A        | 3850  | 41         | Goat                         | 48MM7A        | 3200  |
| 11         | Munson Ridge      | 46PP1A        | 3100  | 42         | Marmot                       | 48MM8A        | 2000  |
| 12         | Little Salch      | 46PP3         | 1500  | 43         | Little Glacier               | 48MM9a        | 4000  |
| 13         | French Creek      | 46PP2         | 2010  | 44         | Arctic Valley #1             | 49MM1         | 500   |
| 14         | Big Delta         | 45PP1         | 975   | 45         | Arctic Valley #2             | 49MM2         | 1000  |
| 15         | Tok Junction      | 43001         | 1650  | 46         | Arctic Valley #3             | 49MM3         | 2030  |
| 16         | Mentasta Pass     | 43NN1         | 2430  | 47         | Arctic Valley #4             | 49MM4         | 2330  |
| 17         | Fielding Lake     | 45001A        | 3000  | 48         | Arctic Ski Bowl              | 49MM5         | 3000  |
| 18         | Monahan Flat      | 47001A        | 2710  | 49         | Log Cabin (British Columbia) | 35KK1         | 2880  |
| 19         | Clearwater Lake   | 46NN1A        | 3100  | 50         | Upper Long Lake              | 33JJ2a        | 1000  |
| 20         | Haggard Creek     | 45NN1A        | 2540  | 51         | Long Lake                    | 33JJ1A        | 1075  |
| 21         | Chistochina       | 44NN1A        | 2170  | 52         | Speel River                  | 33JJ3A        | 275   |
| 22         | Fog Lakes         | 48NN1A        | 2270  | 53         | Crater Lake                  | 33JJ4a        | 1750  |
| 23         | Oshetna Lake      | 47NN1A        | 2950  | 54         | Coleen River                 | 42SS1A        | 1100  |
| 24         | Lake Louise       | 46NN2A        | 2400  | 55         | Black River                  | 42RR1A        | 650   |
| 25         | Chelatna Lake     | 51NN1A        | 1650  | 56         | Circle City                  | 44QQ3A        | 600   |
| 26         | Bald Mtn. Lake    | 49NN1A        | 2150  | 57         | Caribou Mine                 | 45PP2A        | 1115  |
| 27         | Sheep Mountain    | 45MM1         | 2700  | 58         | Eagle Village                | 41PP1A        | 900   |
| 28         | St. Anne's Lake   | 46MM1A        | 1985  | 59         | Chicken Airstrip             | 41PP2A        | 1650  |
| 29         | Alexander Lake    | 50MM1A        | 200   | 60         | Independence Mine            | 49MM7         | 3300  |
| 30         | Willow Airstrip   | 50MM2A        | 150   |            |                              |               |       |
| 31         | Wasilla Airstrip  | 49MM6A        | 350   |            |                              |               |       |

MAY 1965

Snow accumulation in Upper Yukon Basin is slightly less than last year; however, since this is only the second year of record, this statement has little significance. The survey party had difficulty in getting to some of the courses due to melting which had occurred on all courses except Arctic Village and Chandalar Lake.

Snow cover in the Tanana and Chena Drainage was well below the four year average for all courses except Munson Ridge. Five of these courses were bare of snow.

The Matanuska-Susitna courses were so spotty in snow cover they were not measured on May 1, 1965. Many of the courses had no snow cover. This same condition prevailed in the Copper River Drainage.

In the Snettisham watershed, three of the four snow courses had less snow than last month, but two of these had greater water content than in April. The fourth, at Crater Lake, had a 5-inch increase in snow depth over April and a 17-inch increase in water content.



# ALASKA SNOW SURVEYS

| DRAINAGE BASIN<br>AND<br>SNOW COURSE | MAP<br>NO. | DATE OF<br>SURVEY                             | SNOW<br>DEPTH<br>(INCHES) | WATER<br>CONTENT<br>(INCHES) | WATER CONTENT |             |
|--------------------------------------|------------|---|---------------------------|------------------------------|---------------|-------------|
|                                      |            |   |                           |                              | LAST YEAR     | AVERAGE *   |
| Yukon Drainage:                      |            |   |                           |                              |               |             |
| Arctic Village                       | 1          | 4/16/65                                       | 15.9                      | 3.0                          | 3.7           | 3.4         |
| Chandalar Lake                       | 2          | 4/16/65                                       | 20.6                      | 3.4                          | 4.0           | 3.7         |
| Venetie                              | 3          | 4/16/65                                       | 9.2                       | 1.8                          | 2.2           | 2.0         |
| Fort Yukon                           | 4          | 4/16/65                                       | 10.0                      | 1.4                          | 2.9           | 2.2         |
| Log Cabin, B.C.                      | 49         | 5/ 4/65                                       | 40.9                      | 10.3                         | 15.7          | 11.7        |
| Coleen River                         | 54         | 4/16/65                                       | 15.3                      | 2.7                          | -             | -           |
| Black River                          | 55         | 4/16/65                                       | 20.0                      | 3.5                          | -             | -           |
| Circle City                          | 56         | 4/16/65                                       | 10.0                      | 1.4                          | -             | -           |
| Caribou Mine                         | 57         | 4/15/65                                       | 6.0                       | 1.1                          | -             | -           |
| Eagle Village                        | 58         | 4/15/65                                       | 13.3                      | 1.9                          | -             | -           |
| Chicken Airstrip                     | 59         | 4/15/65                                       | 11.2                      | 2.0                          | -             | -           |
| Tanana & Chena<br>Drainage:          |            |   |                           |                              |               |             |
| Yak Pasture                          | 5          | 5/ 5/65                                       | No snow                   | -                            | 2.8           | 2.6         |
| Cleary Summit                        | 6          | 5/ 4/65                                       | 21.0                      | 5.7                          | 5.9           | 7.5         |
| Little Chena                         | 7          | 5/ 4/65                                       | 13.3                      | 4.2                          | 6.2           | 6.5         |
| Mt. Ryan                             | 8          | 5/ 6/65                                       | 25.1                      | 5.8                          | 5.5           | 9.3         |
| Chena Hot Springs                    | 9          | 5/ 6/65                                       | No snow                   | -                            | 4.5           | 5.0         |
| Big Windy                            | 10         | 5/ 6/65                                       | 11.1                      | 2.8                          | 3.4           | 5.4         |
| Munson Ridge                         | 11         | 5/ 6/65                                       | 51.8                      | 16.3                         | 9.3           | 16.2        |
| Little Salcha                        | 12         | 5/ 1/65                                       | No snow                   | -                            | 4.8           | 4.7         |
| French Creek                         | 13         | 5/ 1/65                                       | 11.5                      | 3.8                          | 6.3           | 7.5         |
| Big Delta                            | 14         | 5/ 1/65                                       | No snow                   | -                            | -             | -           |
| Tok                                  | 15         | 4/29/65                                       | No snow                   | -                            | 3.9           | 2.0         |
| Mentasta Pass                        | 16         | 4/29/65                                       | 12.5                      | 3.1                          | 5.4           | 6.5         |
| Fielding Lake                        | 17         | 5/ 1/65                                       | 31.0                      | 8.8                          | 11.0          | 13.4        |
| Matanuska -                          |            |   |                           |                              |               |             |
| Susitna Drainage:                    |            | Snow conditions too spotty for measurement on |                           |                              |               | May 1, 1965 |
| Copper River                         |            |   |                           |                              |               |             |
| Drainage:                            |            | Snow conditions too spotty for measurement on |                           |                              |               | May 1, 1965 |
| Coastal Drainage:                    |            |   |                           |                              |               |             |
| McArthur                             | 32         | No survey made                                |                           |                              |               |             |
| Twenty Mile                          | 33         | No snow                                       |                           |                              |               |             |
| Worthington                          |            |   |                           |                              |               |             |
| Glacier                              | 34         | 5/ 2/65                                       | 43.2                      | 15.9                         | 26.3          | 22.5        |
| Moraine                              | 35         | 4/19/65                                       | 18.2                      | 6.8                          | 7.7           | 7.8         |
| Ptarmigan                            | 36         | 4/19/65                                       | 22.7                      | 8.3                          | 9.4           | 9.3         |
| Grizzly                              | 38         | 4/19/65                                       | 52.1                      | 18.7                         | 29.1          | 25.2        |
| Goat                                 | 41         | 4/19/65                                       | 49.6                      | 19.3                         | 17.8          | 18.6        |
| Ennettisham Drainage:                |            |   |                           |                              |               |             |
| Upper Long Lake                      | 50         | 4/30/65                                       | 57.0                      | 29.0                         | -             | -           |
| Long Lake                            | 51         | 4/30/65                                       | 85.2                      | 41.6                         | -             | -           |
| Speel River                          | 52         | 4/30/65                                       | 64.0                      | 29.2                         | -             | -           |
| Crater Lake                          | 53         | 4/30/65                                       | 117.0                     | 54.0                         | -             | -           |

(\*) Average for Period of Record





# ALASKA SNOW SURVEYS

| DRAINAGE BASIN<br>AND<br>SNOW COURSE   | MAP<br>NO. | DATE OF<br>SURVEY | SNOW<br>DEPTH<br>(INCHES) | WATER<br>CONTENT<br>(INCHES) | WATER CONTENT |           |
|--|------------|-------------------|---------------------------|------------------------------|---------------|-----------|
|  |            |                   |                           |                              | LAST YEAR     | AVERAGE * |
| Chena Watershed Aerial Markers<br>read 5/15/65 - Density referenced to Cleary Summit |            |                   |                           |                              |               |           |
| Cleary Summit  | 6          | 5/15/65           | 16.2                      | 3.9                          |               |           |
| **Little Chena   | 7          | 5/15/65           | 3.0                       | 0.7                          |               |           |
| **Mt. Ryan   | 8          | 5/15/65           | 19.0                      | 4.6                          |               |           |
| Chena Hot Springs  | 9          | 5/15/65           | No snow                   |                              |               |           |
| **Big Windy  | 10         | 5/15/65           | 6.0                       | 1.5                          |               |           |
| **Munson Ridge   | 11         | 5/15/65           | 46.0                      | 11.1                         |               |           |
| Snettisham May 13, 1965, readings:   |            |                   |                           |                              |               |           |
| **Upper Long Lake  | 50         | 5/13/65           | 66.0                      | 29.0                         |               |           |
| Long Lake  | 51         | 5/13/65           | 95.0                      | 40.0                         |               |           |
| Speel River  | 52         | 5/13/65           | 62.1                      | 28.4                         |               |           |
| Crater Lake  | 53         | 5/13/65           | 142.0                     | 52.5                         |               |           |

\*\* Aerial Markers

(\*) Average for Period of Record





UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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